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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |                       | Application Number  | 10/524,275             |       |
|  |                       | Filing Date   | February 11, 2005      |       |
|  |                       | First Named Inventor  | Benjamin GEIGER        |       |
|  |                       | Group Art Unit  | 1654                   |       |
|  |                       | Examiner Name   | unknown                |       |
| Sheet  | 2                     | 4   | Attorney Docket Number | 29140 |
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| <p>per</p> <p>lee</p>  | 10                    | Furusawa Makoto et al. "AMY-1, A C-Myc-Binding Protein, Is Localized in the Mitochondria of Sperm by Association With S-AKAP84, An Anchor Protein of cAMP-Dependent Protein Kinase", The Journal of Biological Chemistry, 276(39): 36647-36651, 2001.         |                        |       |
|  | 11                    | Alam et al. "Germ Line Transmission and Expression of A LacZ Containing Transgene in Tilapia (Oreochromis Niloticus)", Transgenic Research, 5: 87-95, 1996.   |                        |       |
|  | 12                    | Jockusch et al. "The Molecular Architecture of Focal Adhesions", Annual Reviews of Cell Development Biology, 11: 379-416, 1995.   |                        |       |
|  | 13                    | Janmey "Phosphoinositides and Calcium as Regulators of Cellular Actin Assembly and Disassembly", Annual Reviews of Physiology, 56: 169-191, 1994.   |                        |       |
|  | 14                    | Barras III "Assembly of Combinatorial Antibody Libraries on Phage Surfaces: The Gene III Site", Proc. Natl. Acad. Sci. USA, 88: 7978-7982, 1991.  |                        |       |
|  | 15                    | Bilang et al. "The 3'-Terminal Region of the Hygromycin-B-Resistance Gene Is Important for Its Activity in Escherichia Coli and Nicotiana Tabacum", Gene, 100: 247-250, 1991.   |                        |       |
|  | 16                    | Brinkley "A Brief Survey of Methods for Preparing Protein Conjugates With Dyes, Haptens, and Cross-Linking Reagents", Bioconjugate Chemistry, 3: 2-13, 1992.  |                        |       |
|  | 17                    | Brousseau et al. "Hyperalphalipoproteinemia in Human Lecithin Cholesterol Acyltransferase Transgenic Rabbits", The Journal of Clinical Investigation, 97(8): 1844-1851, 1996.   |                        |       |
|  | 18                    | Geiger et al. "The Cytoplasmic Domain of Adherens-Type Junctions", Cell Motility and the Cytoskeleton, 20: 1-6, 1991.   |                        |       |
|  | 19                    | Clackson et al. "Making Antibody Fragments Using Phage Display Libraries", Nature, 352: 624-628, 1991.  |                        |       |
|  | 20                    | Cozzi et al. "Longitudinal Analysis of the Expression of Human Decay Accelerating Factor (HDAF) on Lymphocytes, in the Plasma, and in the Skin Biopsies of Transgenic Pigs", Xenotransplantation, 3: 128-133, 1996.   |                        |       |
|  | 21                    | Tsukita et al. "Molecular Linkage Between Cadherins and Actin Filaments in Cell-Cell Adherens Junctions", Current Opinion in Cell Biology, 4: 834-839, 1992.  |                        |       |
|  | 22                    | Damak et al. "Improved Wool Production in Transgenic Sheep Expressing Insulin-Like Growth Factor 1", Bio/Technology, 14: 185-188, 1996.   |                        |       |
|  | 23                    | Danon et al. "Light Regulated Translational Activators: Identification of Chloroplast Gene Specific mRNA Binding Proteins", The EMBO Journal, 10(13): 3993-4001, 1991.  |                        |       |
|  | 24                    | De Block et al. "Transformation of Brassica Napus and Brassica Oleracea Using Agrobacterium Tumefaciens and the Expression of the Bar and Neo Genes in the Transgenic Plants", Plant Physiology, 91: 694-701, 1989.   |                        |       |
|  | 25                    | Deng et al. "Selection of Antibody Single-Chain Variable Fragments With Improved Carbohydrate Binding by Phage Display", The Journal of Biological Chemistry, 269(13): 9533-9538, 1994.   |                        |       |
|  | 26                    | Dower "Electroporation of Bacteria: A General Approach to Genetic Transformation", Genetic Engineering, Principles and Methods, 12: 275-296, 1990.  |                        |       |
|  | 27                    | Duncker et al. "Expression of A Cystine-Rich Fish Antifreeze in Transgenic Drosophila Melanogaster", Transgenic Research, 5: 49-55, 1996.   |                        |       |
|  | 28                    | Duncker et al. "Antifreeze Protein Does Not Confer Cold Tolerance to Transgenic Drosophila Melanogaster", Cryobiology, 32: 521-527, 1995.   |                        |       |

K C Carlsen 3-1-07

|    |   |
|----|---|
| 29 | Dziadek "Transgenic Animals: How They Are Made and Their Role in Animal Production and Research", Australian Veterinary Journal, 73(5): 182-187, 1996.  |
| 30 | Faux et al. "Molecular Glue: Kinase Anchoring and Scaffold Proteins", Cell, 85: 9-12, 1996.   |
| 31 | Fuchs et al. "Targeting Recombinant Antibodies to the Surface of Escherichia Coli: Fusion to A Peptidoglycan Associated Lipoprotein", Bio/Technology, 9: 1370-1372, 1991.   |
| 32 | Garrard et al. "Fab Assembly and Enrichment in A Monovalent Phage Display System", Bio/Technology, 9: 1373-1377, 1991.  |
| 33 | Garrard et al. "Selection of An Anti-IGF-1 Fab From A Fab Phage Library Created by Mutagenesis of Multiple CDR Loops", Gene, 128: 103-109, 1993.  |
| 34 | Glatz et al. "Cellular Fatty Acid-Binding Proteins: Their Function and Physiological Significance", Progressive Lipid Research, 35(3): 243-282, 1996.   |
| 35 | Gram et al. "In Vitro Selection and Affinity Maturation of Antibodies From A Naive Combinatorial Immunoglobulin Library", Proc. Natl. Acad. Sci. USA, 89: 3576-3580, 1992.  |
| 36 | Griffiths et al. "Human Anti-Self Antibodies With High Specificity From Phage Display Libraries", The EMBO Journal, 12(2): 725-734, 1993.   |
| 37 | Guerche et al. "Direct Gene Transfer by Electroporation in Brassica Napus", Plant Science, 52: 111-116, 1987.   |
| 38 | Hanahan et al. "Plasmid Transformation of Escherichia Coli and Other Bacteria", Methods in Enzymology, 204: 63-113, 1991.   |
| 39 | Hawkins et al. "Selection of Phage Antibodies by Binding Affinity. Mimicking Affinity Maturation", Journal of Molecular Biology, 226: 889-896, 1992.  |
| 40 | Hawkins et al. "The Contribution of Contact and Non-Contact Residues of Antibody in the Affinity of Binding to Antigen. The Interaction of Mutant D1.3 Antibodies With Lysozyme", Journal of Molecular Biology, 234: 958-964, 1993. |
| 41 | Hay et al. "Bacteriophage Cloning and Escherichia Coli Expression of A Human IgM Fab", Human Antibody Hybridomas, 3: 81-85, 1992.   |
| 42 | Hoogenboom et al. "Multi-Subunit Proteins on the Surface of Filamentous Phage: Methodologies for Displaying Antibody (Fab) Heavy and Light Chains", Nucleic Acids Research, 19(15): 4133-4137, 1991.                                |
| 43 | Horsch et al. "A Simple and General Method for Transferring Genes Into Plants", Science, 227: 1229-1231, 1985.  |
| 44 | Howell et al. "Cloned Cauliflower Mosaic Virus DNA Infects Turnips (Brassica Rapa)", Science, 208: 1265-1267, 1980.   |
| 45 | Huse et al. "Generation of A Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda", Science, 246(4935): 1275-1281, 1989.  |
| 46 | Knudsen et al. "Interction of $\alpha$ -Actinin With the Cadherin/Catenin Cell-Cell Adhesion Complex Via $\alpha$ -Catenin", The Journal of Cell Biology, 130(1): 67-77, 1995.  |
| 47 | Itoh et al. "Involvement of ZO-1 in Cadherin-Based Cell Adhesion Through Its Direct Binding to $\alpha$ Catenin and Actin Filaments", The Journal of Cell Biology, 138(1): 181-192, 1997.   |
| 48 | Kang et al. "Linkage of Recognition and Replication Functions by Assembling Combinatorial Antibody Fab Libraries Along Phage Surfaces", Proc. Natl. Acad. Sci. USA, 88: 4363-4366, 1991.  |
| 49 | Keller et al. "In Vivo Particle-Mediated Cytokine Gene Transfer Into Canine Oral Mucosa and Epidermis", Cancer Gene Therapy, 3(3): 186-191, 1996.   |
| 50 | Kim et al. "Neuron-Specific Expression of A Chicken Gicerin cDNA in Transient Transgenic Zebrafish", Neurochemical Research, 21(2): 231-237, 1996.  |
| 51 | Klein et al. "High-Velocity Microprojectiles for Delivering Nucleic Acids Into Living Cells", Nature, 327:70-73, 1987.  |
| 52 | Kroshus et al. "Expression of Human CD59 in Transgenic Pig Organs Enhances Organ Survival in An Ex Vivo Xenogeneic Perfusion Model", Transplantation, 61(10): 1513-1521, 1996.  |
| 53 | Lai et al. "An Extended Family of Protein-Tyrosine Kinase Genes Differentially Expressed in the Vertebrate Nervous System", Neuron, 6: 691-704, 1991.   |
| 54 | Lin et al. "Characterization of S-AKAP84, A Novel Developmentally Regulated A Kinase Anchor Protein of Male Germ Cells", The Journal of Biological Chemistry, 270(46): 27804-27811, 1995.   |
| 55 | Lo "Animal Models of Human Disease. Transgenic and Knockout Models of   |

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|     |    |  |  |
|-----|----|--|--|
| 144 |    | Autoimmunity: Building A Better Disease?", Clinical Immunology and Immunobiology, 79(2): 96-104, 1996.   |  |
|     | 56 | Lorimer et al. "Recombinant Immunotoxins Specific for A Mutant Epidermal Growth Factor Receptor: Targeting With A Single Chain Antibody Variable Domain Isolated by Phage Display", Proc. Natl. Acad. Sci. USA, 93: 14815-14820, 1996.             |  |
|     | 57 | McCafferty et al. "Phage Antibodies: Filamentous Phage Displaying Antibody Variable Domains", Nature, 348: 552-554, 1990.  |  |
|     | 58 | Mitchell et al. "Transgene Expression in the Rhesus Cervix Mediated by An Adenovirus Expressing $\beta$ -Galactosidase", American Journal of Obstetrical Gynecology, 174: 1094-1101, 1996.   |  |
|     | 59 | Ndubuka et al. "Expression of A Kinase Anchor Protein 75 Depletes Type II cAMP-Dependent Protein Kinases From the Cytoplasm and Sequesters the Kinases in A Particulate Pool", The Journal of Biological Chemistry, 268(11): 7621-7624, 1993.      |  |
|     | 60 | Neuhaus et al. "Transgenic Rapeseed Plants Obtained by the Microinjection of DNA Into Microspore-Derived Embryoids", Theoretical Applied Genetics, 75: 30-36, 1987.  |  |
|     | 61 | Rimm et al. " $\alpha$ 1(E)-Catenin Is An Actin-Binding Protein Mediating the Attachment of F-Actin to the Membrane Adhesion Complex", Proc. Natl. Acad. Sci. USA, 92: 8813-8817, 1995.  |  |
|     | 62 | Rexroad Jr. et al. "Evaluation of Co-Culture as A Method for Selecting Viable Microinjected Sheep Embryos for Transfer", Animal Biotechnology, 1(1): 1-10, 1990.   |  |
|     | 63 | Rubin "A Kinase Anchor Proteins and the Intracellular Targeting of Signals Carried by Cyclic AMP", Biochimica et Biophysica Acta, 1224: 467-479, 1994.   |  |
|     | 64 | Sastry et al. "Cloning of the Immunological Repertoire in Escherichia Coli for Generation of Monoclonal Catalytic Antibodies: Construction of Heavy Chain Variable Region-Specific cDNA Library", Proc. Natl. Acad. Sci. USA, 86: 5728-5732, 1989. |  |
|     | 65 | Mittelsten Scheid et al. "Reversible Inactivation of A Transgene in Arabidopsis Thaliana", Molecular Gene & Genetics, 228: 104-112, 1991.  |  |
|     | 66 | Scott et al. "Localization of A-Kinase Through Anchoring Proteins", Molecular Endocrinology, 8(1): 5-11, 1994.   |  |
|     | 67 | Shanahan et al. "Regulation of Expression of A Sheep Metallothionein 1A-Sheep Growth Hormone Fusion Gene in Transgenic Mice", Molecular and Cellular Biology, 9(12): 5473-5479, 1989.  |  |
|     | 68 | Shen et al. "Transgenic Rabbits With the Integrated Human 15-Lipoxygenase Gene Driven by A Lysozyme Promoter: Macrophage-Specific Expression and Variable Positional Specificity of the Transgenic Enzyme", The FASEB Journal, 9: 1623-1631, 1995. |  |
|     | 69 | Simoens et al. "Genetic Engineering in Plants", Human Reproduction Update, 1(6): 523-542, 1995.  |  |
|     | 70 | Wagner et al. "The Renin-Angiotensin System in Transgenic Rats", Pediatric Nephrology, 10: 108-112, 1996.  |  |
|     | 71 | Wall et al. "Synthesis and Secretion of the Mouse Whey Acidic Protein in Transgenic Sheep", Transgenic Research, 5: 67-72, 1996.   |  |
|     | 72 | Wall "Transgenic Livestock: Progress and Prospects for the Future", Theriogenology, 45: 57-68, 1996.   |  |
|     | 73 | Whitehorn et al. "A Generic Method for Expression and Use of 'Tagged' Soluble Versions of Cell Surface Receptors", Bio/Technology, 13: 1215-1219, 1995.  |  |
|     | 74 | Wilks "Two Putative Protein-Tyrosine Kinases Identified by Application of the Polymerase Chain Reaction", Proc. Natl. Acad. Sci. USA, 86: 1603-1607, 1989.   |  |
| 145 | 75 | Zebedee et al. "Human Combinatorial Antibody Libraries to Hepatitis B Surface Antigen", Proc. Natl. Acad. Sci. USA, 89: 3175-3179, 1992.   |  |

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| Signature | <i>K. C. Carter</i> | Considered | 3-1-07 |
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